PATENT CLAIMS

1. Method for automatic adjustment of a bus-capable field device of process automation technology to the fieldbus protocol utilized on a fieldbus,

   with multiple fieldbus stack programs stored in the field device, which programs serve to extract wanted data from telegrams of various fieldbus systems, characterized by the following process steps:

   - receiving telegrams sent via the fieldbus
   - transferring the telegrams to the fieldbus stack programs
   - processing the telegrams in the fieldbus stack programs
   - selecting a fieldbus stack program for further data exchange with the fieldbus, which program has extracted further processable, wanted data from at least one telegram.

2. Method as claimed in claim 1, wherein the received telegrams are transferred successively to the various fieldbus stack programs.

3. Method as claimed in claim 1, wherein a telegram is transferred to various fieldbus stack programs.

4. Method as claimed in one of the preceding claims, wherein at least two fieldbus stack programs are stored in the field device.

5. Method as claimed in claim 4, wherein a fieldbus stack program is a Profibus PA stack or a Foundation Fieldbus stack.

6. Method as claimed in one of the preceding claims, wherein the field device is a temperature sensor.

7. Field device for execution of the method as claimed in one of the preceding claims.